GOES-12
PATMOS-X
Valid 11:45Z
02/21

Maritime Convection
Tops at 12-14km
GOES-12
PATMOS-X
Valid 11:45Z
02/21

Maritime Convection Tops at 12-14 km
RAQMS 24 hr FX
Valid 12Z 02/21

- Note: Added 50%, 75% convective precip contours to identify weaker convection

- Strongest convection (95%) predicted at 115-115-110W/8-12N similar to observed convection

- Localized deep convection predicted to Southeast of Galapagos similar to observed convection

Maritime Convection Tops at 12-14km
RAQMS 54hr SFC FX (18Z 02/22)

• Low surface O3/HCHO/CO in Equatorial pool to Southwest of Galapagos
• Strong (95%) maritime convection to NE of Galapagos
• Mixture of aged strat (elevated O3/BRO) and marine BL (low O3/CO) dominates
• Residual BRO to Southwest of Galapagos
RAQMS 54hr 95W FX (18Z 02/22)

BRO/O3 minimum in Lower part of jet at 10S/8-12km

High O3/BRO from recent STE on equatorward flank of jet at 13-15km
RAQMS 54hr 100W FX (18Z 02/22)

CO minimum within westerly jet at 10S/13-15km

Elevated CO under and on poleward flank of jet
RAQMS 78hr SFC FX (18Z 02/23)

- Low surface O3/HCHO/CO in Equatorial pool moving Southwest of Galapagos
- Moderate (75%) maritime convection NE and SW of Galapagos
RAQMS 78hr 12km FX (18Z 02/23)

- Mostly aged strat (elevated O3/BRO)
- Residual BRO over and southwest of Galapagos
RAQMS 102hr SFC FX (18Z 02/24)

- Low surface O3/HCHO/CO in Equatorial pool continues to move West of Galapagos
- Strong (95%) maritime convection Northeast of Galapagos
RAQMS 102hr 12km FX (18Z 02/24)
• Residual BRO to West of Galapagos
• Sharp O3/CO gradient due to STE/S. American outflow East and South of Galapagos